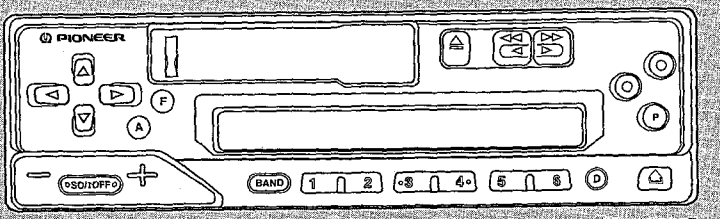
High power cassette player with RDS tuner

ENGLISH

KEH-253OR
KEH-2500R

Operation Manual



KEH-2500R

PIONEER

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Contents

Key Finder 2

Before Using This Product 3
- About This Product . 3
- About This Manual 4
- Precaution 4
- In Case of Trouble . 4

Detaching and Replacing the Front Panel 5
- Theft Protection 5

Initial Setting Menu 6
- Entering the Initial Setting Menu . 6
- Changing the FM Tuning Step . 6
- Switching the Auto PI Seek 7

Basic Operation 8
- Switching Power On . . 8
- Switching Power Off 8

Tuner Operation 9
- Basic Operation of Tuner . . . 9
- AF Function Switching . . . 10
- Entering the Function Menu . . . 11
- Local Seek Tuning 11
- Preset Tuning . . . 11
- BSM (Best Stations Memory) . 12
- Preset Memory . 12
- Recalling Preset Stations 13
- Using the Programmable Button . . . 13

Using RDS Functions 15
- What is RDS? 15
- Program Service Name Display 15
- AF Function 16
- PI Seek Function 17
- REG Function 17
- TA Function 18
- PTY Function 20

Using the Cassette Player 23
- Basic Operation of Cassette Player 23
- Fast Forward/Rewind . . 23
- Entering the Function Menu . . 24
- Radio Intercept . . 24

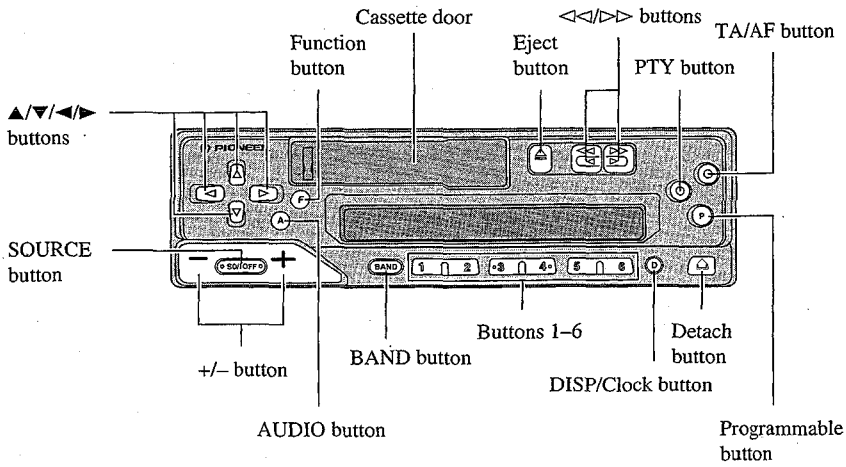
Cassette Player and Care 25
- Precaution 25
- Cleaning the Head 25

Audio Adjustment 26
- Selecting the Mode 26
- Balance Adjustment 26
- Bass/Treble Adjustment 27
- Loudness Adjustment 27

Other Functions 28
- Time Display/Setting . . . 28

Specifications 30

Key Finder


Cassette door
◁◁/▷▷ buttons
TA/AF button
Function button
Eject button
PTY button
▲/▼/◄/► buttons
SOURCE button
BAND
1
2
3
4
5
6
Buttons 1–6
Detach button
+/– button
BAND button
DISP/Clock button
AUDIO button
Programmable button

About This Product

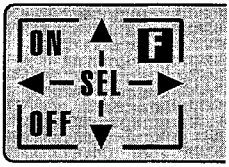
- This product complies with the EMC Directives (89/336/EEC, 92/31/EEC) and CE Marking Directive (93/68/EEC)

The tuner frequencies on this product are allocated for use in Western Europe, Asia, the Middle East, Africa and Oceania. Use in other areas may result in improper reception. The RDS function operates only in areas with FM stations broadcasting RDS signals

This unit's display features Key Guidance Indicators. These light to indicate which of the ▲/▼/◄/► and function buttons you can use. When you're in the Function Menu or Audio Adjustment Menu, they also make it easy to see which ▲/▼/◄/► buttons you can use to switch functions ON/OFF, switch repeat selections, and perform other operations. Indicator and corresponding buttons are shown below.

Indicator	Button
F	Function
↑	▲
↓	▼
←	◄
→	►

Key Guidance Indicators



Note:

- When "ON" and "OFF" are lit, you can switch the currently selected function ON/OFF with the ▲/▼ buttons
- When "SEL" is lit, you can use the ◄/► buttons to switch selection options of the currently selected function

About This Manual

This product features a number of sophisticated functions ensuring superior reception and operation. All are designed for the easiest possible use, but many are not self-explanatory. This operation manual is intended to help you benefit fully from their potential and to maximize your listening enjoyment.

We recommend that you familiarize yourself with the functions and their operation by reading through the manual before you begin using this product It is especially important that you read and observe the "Precaution" on this page and in other sections

In this Operation Manual, the Basic Operation for each sound source is outlined at the beginning of its explanation, covering simple operation for that source, such as merely playing music.

Precaution

- Keep this manual handy as a reference for operating procedures and precautions.
- Always keep the volume low enough for outside sounds to be audible
- Protect the product from moisture.
- If the battery is disconnected, the preset memory will be erased and must be reprogrammed.

In Case of Trouble

Should this product fail to operate properly, contact your dealer or nearest authorized Pioneer Service Station.

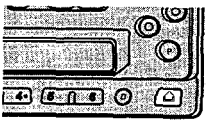
Detaching and Replacing the Front Panel

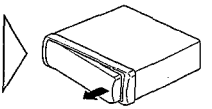
Theft Protection

The front panel of the main body is detachable to discourage theft

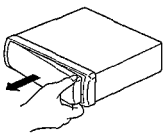
■ Detaching the front panel

1. **Eject the front panel.**



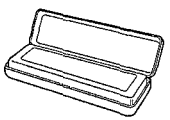


2. **To remove the front panel, pull its right-hand side toward you.**



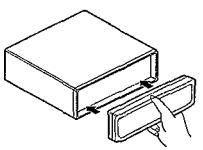
Take care not to grip it tightly or drop it

3. **Use the protective case provided to store/carry the detached front panel.**



■ Replacing the Front Panel

- **Replace the front panel by clipping it into place.**



Precaution:

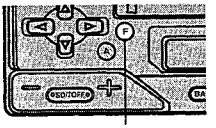
- Never use force or grip the display tightly when removing or replacing the front panel
- Avoid subjecting the front panel to excessive shocks
- Keep the front panel out of direct sunlight and high temperatures

Initial Setting Menu

With this menu, you can perform initial settings for the unit. Setting options cover everything from tuning steps for the tuner to auto PI seek ON/OFF switching

Entering the Initial Setting Menu

1. Enter the Initial Setting Menu with the sources off.



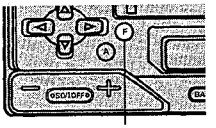
Hold for 2 seconds

To cancel the Initial Setting Menu, press the BAND button

Note:

- Holding down the Function button for 2 seconds also cancels the Initial Setting Menu

2. Select the desired mode.



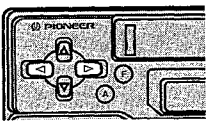
Each press
changes the Mode

Each press of the Function button selects the mode in the following order:
FM STEP → A-PI

Changing the FM Tuning Step

Normally set at 50 kHz during Seek tuning in the FM mode, the tuning step changes to 100 kHz when the AF or TA mode is activated.
It may be preferable to set tuning step to 50 kHz in the AF mode.

- **Select the desired tuning step.**



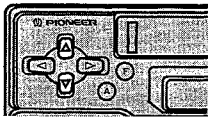
Note:

- The tuning step remains set at 50 kHz during Manual tuning
- The tuning step returns to 100 kHz if the battery is temporarily disconnected

Switching the Auto PI Seek

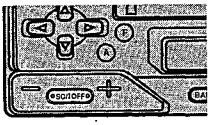
During Preset Station PI Seek operation, you can switch the Auto PI Seek function ON/OFF (Refer to "PI Seek Function" on page 17)

- **Switch the Auto PI Seek ON or OFF.**



Switching Power On

- **Select the desired source (such as the tuner).**

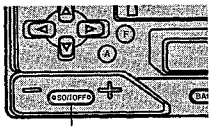


Each press of the SOURCE button selects the desired source in the following order:
Tuner → Tape

Note:
- The sound source will not change when a cassette tape is not set in this unit

Switching Power Off

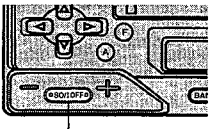
- **Switch the sources OFF.**

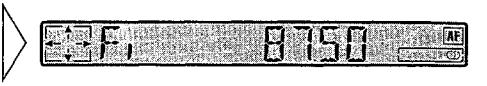


Hold for 1 second

Basic Operation of Tuner

1. **Select Tuner. (See page 8.)**

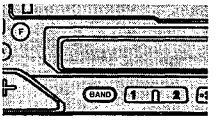




Each press
changes the Source

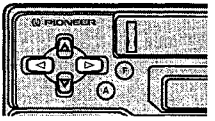
The program service name or frequency appears on the display
("⊂⊃" indicator lights when a stereo station is selected.)

2. **Select the desired band.**



FI → FII → MW/LW

3. **Tune the receiver to a higher or lower frequency.**



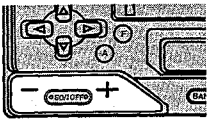
This product's tuner lets you select the tuning by changing the length of the time you press the button

Manual Tuning (step by step)	0 3 seconds or less
Seek Tuning	0 3 – 2 seconds
Manual Tuning (continuously)	2 seconds or more

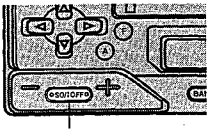
Note:

- To select a weak broadcasting station that cannot be tuned in with the Seek Tuning function, tune in with Manual Tuning

4. **Raise or lower the volume.**



5. **Turn the source OFF. (See page 8.)**

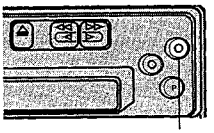


Hold for 1 second

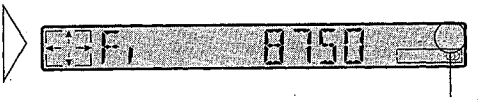
AF Function Switching

This product's AF function can be switched ON and OFF AF should be switched OFF for normal tuning operations.

- **Switch AF OFF.**



Hold for 2 seconds



"AF" disappears

To switch AF ON, repeat the preceding operation.

Note:

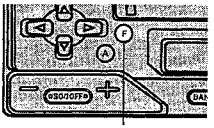
- You can also switch the AF Function ON/OFF in the Function Menu

Entering the Function Menu

In this menu you can select tuner functions

Note:
- REG, TA, PTY, and AF are RDS functions Refer to "Using RDS Function" for details and instructions on how to use these functions

- **Select the desired mode in Function Menu.**



Each press
changes the Mode

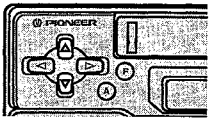
Each press of the Function button selects the mode in the following order:
BSM → REG → LOCAL → TA → PTY SELECT → AF

Note:
- You can cancel the Function Menu by pressing the BAND button
- After selecting the Function Menu, if you do not perform an operation within about 30 seconds, the Function Menu is automatically canceled

Local Seek Tuning

This mode selects only stations with especially strong signals.

1. **Select the Local mode in the Function Menu.**
2. **Switch the Local mode ON or OFF.**



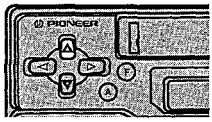
Preset Tuning

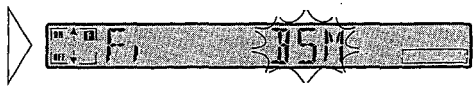
Up to 12 FM stations (6 in FI (FM1), FII (FM2)) and 6 MW/LW stations can be stored in memory
Store the stations in memory under buttons 1–6 beforehand with the BSM (Best Stations Memory) or Preset Memory function

BSM (Best Stations Memory)

The BSM function stores stations in memory automatically

1. **Select the BSM mode in the Function Menu.**
2. **Switch the BSM mode ON.**

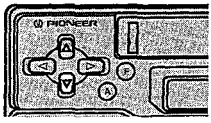


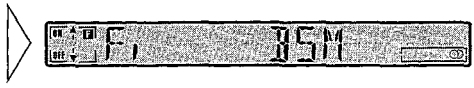


The stations with the strongest signals will be stored under buttons 1–6 and in order of their signal strength

Note:
- Pressing the BAND button cancels the Function Menu

- **To cancel the process, press the ▼ button in the Function Menu before memorization is complete.**

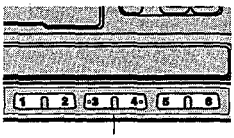




Preset Memory

The Preset Memory function stores stations in memory manually.

1. **Select the station whose frequency you want to store in memory.**
2. **Press one of buttons 1–6 for 2 seconds or longer to store the desired stations.**



Hold for 2 seconds

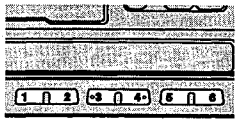
The station is stored in memory under the selected button

Recalling Preset Stations

There are two ways to recall preset stations

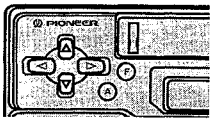
■ Direct Recall

- **Press one of buttons 1–6 to recall a station preset under that button.**



■ Sequential Recall

- **Recall a station preset under button 1–6.**

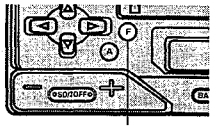


Using the Programmable Button

You can memorize Function Menu BSM, REG, and LOCAL functions in the Programmable button.
Initially, the BSM function is memorized in the Programmable button.

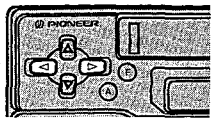
■ Setting the Programmable Button

1. **Select the Programmable button setting mode.**

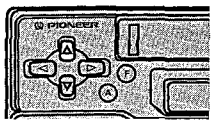


Hold for 2 seconds

2. **Select the function you want to memorize in the Programmable button.**



3. **Memorize the function in the Programmable button.**



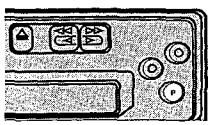
Note:

- Pressing the BAND button cancels the Detailed Setting Menu

■ Using the Programmable Button

The Programmable button operates in a different way depending on the function programmed (memorized)

- **Use the programmable button.**



Function	press	Hold for 2 seconds
BSM	——	ON/OFF
REG	ON/OFF	——
LOC	ON/OFF	——

What is RDS?

RDS (Radio Data System) is a system for transmitting data along with FM programs. This data, which is inaudible, provides a variety of features such as: program service name, program type display, traffic announcement standby, automatic tuning and program type tuning, intended to aid radio listeners in tuning to a desired station.

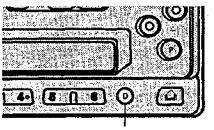
Note:

- RDS service may not be provided by all stations
- RDS functions, like AF (Alternative frequenceies search) and TA (Traffic Announcement standby), are only active when your radio is tuned to RDS stations

Program Service Name Display

With this function, the names of networks/stations providing RDS services replace the frequency on the display a few seconds after they are tuned in.

- **Change the display.**



Each press
changes the Mode

Each press of the DISP/Clock button selects the mode in the following order:
Program Service Name → PTY Information → Frequency

Note:

- After switching displays, if you do not perform an operation within 8 seconds, the Program Service Name is automatically displayed

■ Displaying PTY Information

PTY (Program Type ID code) information for the currently tuned station appears on the display for 8 seconds. The information is correlated with the list in the section "PTY Function" on page 20.
If the currently tuned station is not broadcasting a PTY code or its PTY code is not among those listed in the section "PTY Function" on page 20, "NOT FOUND" appears on the display.

■ Displaying the Frequency

The frequency of the current station appears on the display.

AF Function

The AF (Alternative Frequencies search) function is used to search for other frequencies in the same network as the currently tuned station. It automatically retunes the receiver to another frequency in the network which is broadcasting a stronger signal when there are problems with reception of the currently tuned station or better reception is possible on a different frequency.

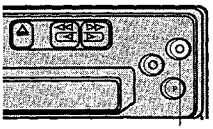
Note:

- AF tunes the receiver only to RDS stations when you use Seek tuning or BSM Auto Memory with the "AF" indicator ON
- When you recall a preset station, the tuner may update the preset station with a new frequency from the station's AF list (This is only available when using presets on the FM1 band) No preset number appears on the display if the RDS data for the station received differs from that for the originally stored station
- Sound may be temporarily interrupted by another program during an AF frequency search
- When the tuner is tuned to a non-RDS station, the "AF" indicator flashes
- AF can be switched ON or OFF independently for each FM band

■ Activating/deactivating the AF Function

AF is set to ON by default.

- **Turn AF to OFF.**



Hold for 2 seconds

"AF" disappears

To turn AF back ON, repeat the preceding operation.

Note:

- You can also switch the AF Function ON/OFF in the Function Menu

PI Seek Function

The tuner searches for another frequency broadcasting the same programming. "PI SEEK" appears on the display and the radio volume is muted during a PI Seek. The muting is discontinued after completion of the PI Seek, whether or not the PI seek has succeeded. If the PI Seek is unsuccessful, the tuner returns to the previous frequency.

■ Auto PI Seek

If the tuner fails to locate a suitable alternative frequency or if the broadcasting signal is too weak for proper reception, the PI Seek will automatically start

■ Preset Station PI Seek

When preset stations cannot be recalled, as when traveling long distances, the unit can be set to perform PI Seek also during preset recall
The default setting for PI Seek is OFF

Note:

- Refer to "Initial Setting Menu" for details on how to switch this unit ON/OFF

REG Function

When AF is used to retune the tuner automatically, REG (regional) limits the selection to stations broadcasting regional programs.

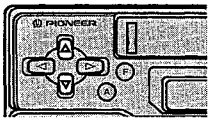
Note:

- Regional programming and regional networks are organized differently depending on the country (i e , they may change according to the hour, state or broadcast area)
- The preset number may disappear on the display if the tuner tunes in a regional station which differs from the originally set station

■ Activating REG

The REG function can be turned ON independently for each FM band

1. **Select the REG mode in the Function Menu.**
2. **Activate or deactivate REG while in an FM band.**



"REG"

Note:

- Pressing the BAND button cancels the Function Menu

TA Function

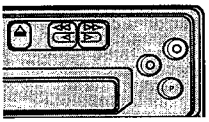
The TA (Traffic Announcement standby) function lets you receive traffic announcements automatically, no matter what source (tuner or cassette player) you are listening to. The TA function can be activated for either a TP station (a station that broadcasts traffic information) or an EON TP station (a station carrying information which cross-references TP stations)

■ Activating/Deactivating the TA Function

1. Tune in a TP or EON TP station.

The "TP" indicator lights when the tuner is tuned to a TP station, and both the "EON" and "TP" indicators light when it is tuned to an EON TP station

2. Activate the TA function.



"TA"

The "TA" indicator lights, indicating that the tuner is waiting for traffic announcements.

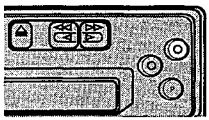
Repeat the preceding operation when no traffic announcement is being received to deactivate the TA function.

Note:

- You can also switch the TA Function ON/OFF in the Function Menu
- Only the (+), (–), TA/AF, AUDIO, DISP/Clock and SOURCE buttons can be used during traffic announcement reception
- The system switches back to the original source following traffic announcement reception
- The TA function can be activated from the cassette player mode if the tuner was last set to the FM band but not if it was last set to the MW/LW band
- If the tuner was last set to FM, turning on the TA function lets you operate other tuning functions while listening to a cassette
- Only TP or EON-TP stations are tuned in during the Seek Tuning mode when the "TA" indicator is ON
- Only TP or EON-TP stations are stored by BSM when the "TA" indicator is ON

■ Canceling Traffic Announcements

- **Press the TA/AF button while a traffic announcement is being received to cancel the announcement and return to the original source.**

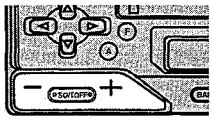


The announcement is canceled but the tuner remains in the TA mode until the TA/AF button is pressed again.

■ Adjusting the TA Volume

When a traffic announcement begins, the volume adjusts automatically to a preset level to enable you to hear the announcement clearly.

- **Set the volume by adjusting it during reception of a traffic announcement.**



The newly set volume is stored in memory and recalled for subsequent traffic announcements.

■ TP Alarm function

About 30 seconds after the "TP" or "EON" indicator is extinguished due to a weak signal, a 5 second beep sounds to remind you to select another TP or EON-TP station.

- **If you are listening to the tuner, tune in another TP station or EON-TP station.**

In the cassette player mode, the tuner automatically seeks out the TP station with the strongest signal in the current area 10 (or 30)* seconds after "TP" disappears from the display

*** Time taken before Seek begins.**

TA funtion ON	10 seconds
TA, AF functions ON	30 seconds

PTY Function

The PTY function enables you to select stations by the type of programming they broadcast (PTY Search). It also provides automatic tuning to emergency broadcasts (PTY Alarm)

Note:

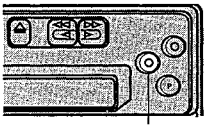
- PTY code program types are as follows:

1 NEWS:	News
2 AFFAIRS:	Current affairs
3 INFO:	General information and advice
4 SPORT:	Sports programs
5 EDUCATE:	Educational programs
6 DRAMA:	All radio plays and serials
7 CULTURE:	Programs concerned with any aspect of national or regional culture
8 SCIENCE:	Programs about nature, science and technology
9 VARIED:	Light entertainment programs
10 POP MUS:	Popular music
11 ROCK MUS:	Contemporary modern music
12 EASY MUS:	Easy listening music
13 L CLASS:	Light classical music
14 CLASSICS:	Serious classical music
15 OTH MUS:	Other types of music, which can't be categorized
16 WEATHER:	Weather reports/Meteorological information
17 FINANCE:	Stock market reports, commerce, trading etc
18 CHILDREN:	Children's programs
19 SOCIAL:	Social affairs programs
20 RELIGION:	Religion affairs programs or services
21 PHONE IN:	Phone in based programs
22 TOURING:	Travel programs, not for announcements about traffic problem
23 LEISURE:	Programs about hobbies and recreational activities
24 JAZZ:	Jazz music based programs
25 COUNTRY:	Country music based programs
26 NAT MUS:	National music based programs
27 OLDIES:	Oldies music, 'Golden age' based programs
28 FOLK MUS:	Folk music based programs
29 DOCUMENT:	Documentary programs

- If a PTY code of zero is received from a station, "NONE" will be displayed This indicates that the station has not defined its program contents
- "NO PTY" will be displayed in the following cases:
  * If the received station is not sending any PTY code
  * If the signal is too weak for this unit to pick up the PTY code

■ PTY Search Setting Function

1. Enter the PTY Search setting mode.



Hold for 2 seconds

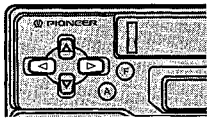
"PTY"

The "PTY" indicator lights and the name of a program type appears on the display for 5 seconds.

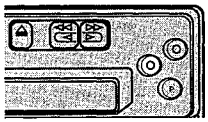
Note:

- CURRENT sets desired PTY to the program type of the current station (only for RDS stations broadcasting PTY information)

2. Select one of the PTYs:



3. When the desired programming type appears on the display, return to the normal display.

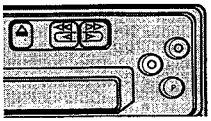


Note:

- You can also select the PTY Search Setting PTY Code in the Function Menu, and switch the PTY Search Function ON/OFF

■ PTY Search Function

- **Initiate a PTY search.**



The tuner searches for a station broadcasting the desired PTY.

Note:

- The program of some stations may differ from that indicated by the transmitted PTY
- If no station broadcasting the selected programming type is found, "NOT FOUND" is displayed for about 2 seconds, and the tuner returns to the original station

■ PTY Alarm

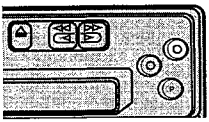
PTY Alarm is a special PTY code for announcements regarding emergencies such as natural disasters When the tuner receives the radio alarm code, "ALARM" appears on the display and the volume adjusts to the TA volume When the station stops broadcasting the emergency announcement, the system returns to the previous source

Note:

- Only the (+), (–), TA/AF, AUDIO, DISP/Clock and SOURCE buttons can be used during emergency announcement reception
- The system switches back to the original source following emergency announcement reception

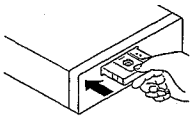
■ Canceling Emergency Announcements

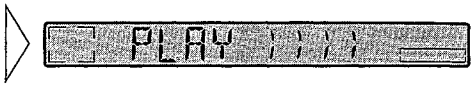
- **Press the TA/AF button during emergency announcement reception to cancel the announcement and return to the previous source.**



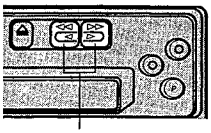
Basic Operation of Cassette Player

1. **Insert the cassette tape.**

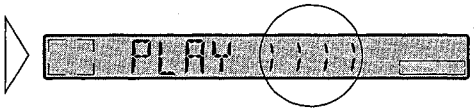




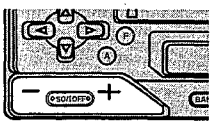
2. **Switch tape playback from side A to side B, or vice versa.**



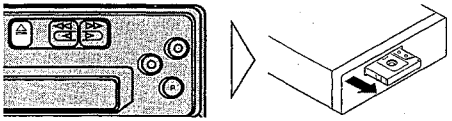
Same Time



3. **Raise or lower the volume.**



4. **Remove the cassette tape.**



Note:

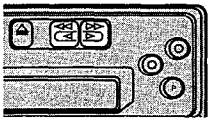
- The Tape function can be turned ON/OFF with the cassette tape remaining in this product (See page 8)

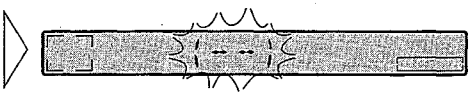
Fast Forward/Rewind

■ Fast Forward

While "<-->" is displayed, the system fast-forwards the cassette tape to the end of the current side.

- **Fast-forward the cassette tape by pressing the button for the same direction as the tape play indicator.**

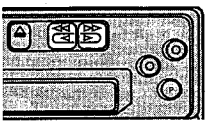


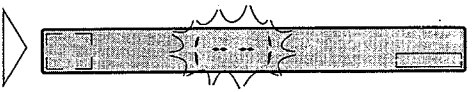


■ Rewind

While "<-->" is displayed, the system rewinds the cassette tape to the beginning of the current side.

- **Rewind the cassette tape by pressing the button for the opposite direction as the tape play indicator.**

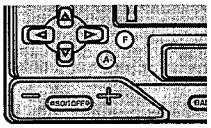




Entering the Function Menu

In this menu you can select Tape functions

- **Select the Radio Intercept mode in Function Menu.**



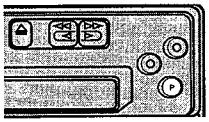
Note:

- You can cancel the Function Menu by pressing the BAND button.
- After selecting the Function Menu, if you do not perform an operation within about 30 seconds, the Function Menu is automatically canceled
- This unit's cassette Function Menu enables Radio Intercept mode ON/OFF switching only If you press the Function button for 2 seconds or more and select the Programmable button Setting mode, you can memorize the Radio Intercept mode ON/OFF setting beforehand However, switching between ON and OFF is not possible with the Programmable button
- You can cancel the Programmable button setting mode by pressing the BAND button

Radio Intercept

This function allows you to listen to the radio during tape fast-forwarding/rewinding

- **Switch the Radio Intercept mode ON.**



To switch the Radio Intercept mode OFF, repeat the preceding operation

Note:

- You can also switch the Radio Intercept mode ON/OFF in the Function Menu.

Precaution

■ About the Cassette Player

- A loose or warped label on a cassette tape may interfere with the eject mechanism of the unit or cause the cassette to become jammed in the unit Avoid using such tapes or remove such labels from the cassette before attempting use

■ About Cassette Tapes

- Do not use tapes longer than C-90 type (90 min.) cassettes Longer tapes can interfere with tape transport.
- Storing cassettes in areas directly exposed to sunlight or high temperatures can distort them and subsequently interfere with tape transport

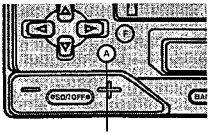
- Store unused tapes in a tape case where there is no danger of them becoming loose or being exposed to dust.

Cleaning the Head

If the head becomes dirty, the sound quality will deteriorate and there will be sound dropouts and other imperfections in performance In this case, the head must be cleaned

Selecting the Mode

- **Select the mode you want to adjust.**



Each press
changes the Mode

Each press of the AUDIO button selects the mode in the following order:
Fader/Balance → Bass → Treble → Loudness

When audio modes are selected for adjustment, the setting returns to the normal display after 30 seconds.

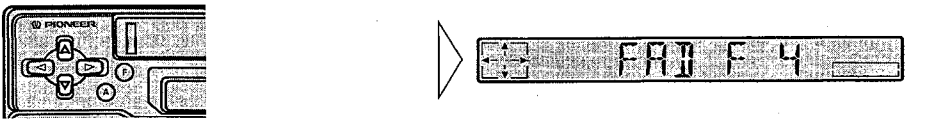
Balance Adjustment

This function allows you to select a Fader/Balance setting that provides ideal listening conditions in all occupied seats.

1. **Select the Fader/Balance mode.**

   After adjustment use the BAND button to return to the normal display.

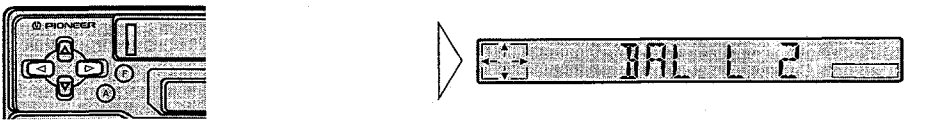
2. **Shift the balance progressively to the front or rear speakers.**



"FAD F15" – "FAD R15" is displayed as it moves from front to rear

Note:
- "FAD 00" is the proper setting when 2 speakers are in use

3. **Shift the balance to the left or right speaker, respectively.**



"BAL L9" – "BAL R9" is displayed as it moves from left to right.

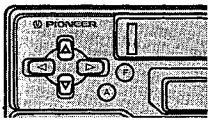
Bass/Treble Adjustment

This product is equipped with two tone adjustment modes, the Bass Adjustment and Treble Adjustment modes

1. **Select "Bass Adjustment mode" or "Treble Adjustment mode".**

   After adjustment use the BAND button to return to the normal display.

2. **Increase or decrease the intensity of the bass or treble, whichever is selected.**



The display shows "+6" – "–6"

3. **Repeat steps 2 – 3 above for the other Bass or Treble Adjustment mode.**

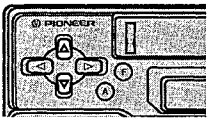
Loudness Adjustment

The Loudness function compensates for deficiencies in the low and high sound ranges at low volume.

1. **Select the Loudness adjustment mode.**

   After selection use the BAND button to return to the normal display.

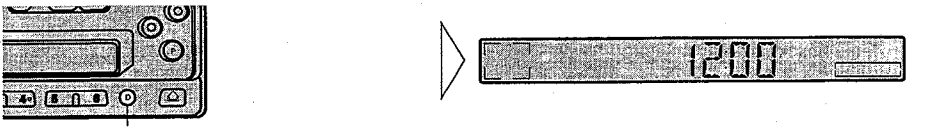
2. **Switch the Loudness function ON or OFF.**



Time Display/Setting

■ Displaying the time

- **To turn the time display ON with the Source ON.**

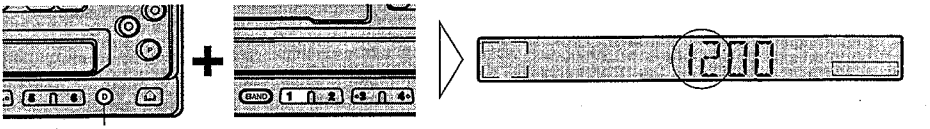


Hold for 2 seconds

The time display disappears temporarily when you perform another operation, but the time indication returns to the display after 25 seconds.

■ Setting the Hours

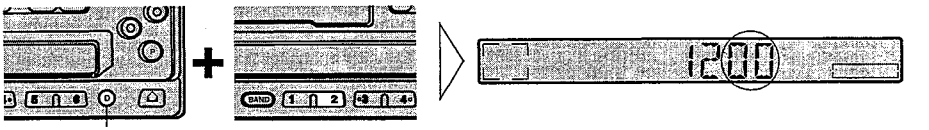
- **While holding down the DISP/Clock button for at least 2 seconds, press button 1 to set the hour.**



Hold for 2 seconds

■ Setting the Minutes

- **While holding down the DISP/Clock button for at least 2 seconds, press button 2 to set the minute.**

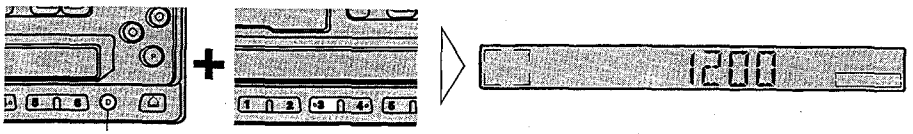


Hold for 2 seconds

When you release the DISP/Clock button, the second count begins from 00 seconds.

■ Synchronizing with the time announcement

- **While holding down the DISP/Clock button for at least 2 seconds, press button 3 to reset the minute and second indications to zero. Example: When synchronizing between 11:30 and 12:29.**



Hold for 2 seconds

Note:

- The hour and minute can be advanced by pressing the respective buttons either consecutively or continuously

Specifications

General

Power source	14 4 V DC (10 8 – 15 1 V allowable)
Grounding system	Negative type
Max current consumption	8 5 A
Dimensions	
(mounting size)	178 (W) × 50 (H) × 150 (D) mm
(front face)	188 (W) × 58 (H) × 19 (D) mm
Weight	1 2 kg

Amplifier

Maximum power output	35 W × 4
Continuous power output	22 W × 4
	(DIN45324, +B=14 4 V)
Load impedance	4 Ω (4 – 8 Ω allowable)
Tone controls	
(Bass)	±12 dB (100 Hz)
(Treble)	±12 dB (10 kHz)
Loudness contour	+10 dB (100 Hz), +7 dB (10 kHz)
	(volume: –30 dB)

Cassette player

Tape	Compact cassette tape (C-30 – C-90)
Tape speed	4 8 cm/sec
Fast forward/rewinding time	Approx 90 sec for C-60
Wow & flutter	0 13% (WRMS)
Frequency response	40 – 14,000 Hz (±3 dB)
Stereo separation	45 dB
Signal-to-noise ratio	52 dB (IEC-A network)

FM tuner

Frequency range	87 5 – 108 MHz
Usable sensitivity	11 dBf (1 0 µV/75 Ω, mono, S/N: 30 dB)
50 dB quieting sensitivity	16 dBf (1 7 µV/75 Ω, mono)
Signal-to-noise ratio	70 dB (IEC-A network)
Distortion	0 3% (at 65 dBf, 1 kHz, stereo)
Frequency response	30 – 15,000 Hz (±3 dB)
Stereo separation	40 dB (at 65 dBf, 1 kHz)

MW tuner

Frequency range	531 – 1,602 kHz
Usable sensitivity	18 µV (25 dB) (S/N: 20 dB)
Selectivity	50 dB (±9 kHz)

LW tuner

Frequency range	153 – 281 kHz
Usable sensitivity	30 µV (30 dB) (S/N: 20 dB)
Selectivity	50 dB (±9 kHz)

Note:

- Specifications and the design are subject to possible modification without notice due to improvements

France: tapez 36 15 PIONEER

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